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IV. "Second Supplementary Paper on the Calculation of the Numerical Value of Euler's Constant." By William Shanks, Houghton-le-Spring, Durham. Communicated by the Rev. Professor Price, F.R.S. Received August 29, 1867.

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When n\!=\!2000, we have 1\!+\!\frac{1}{2}\!+\!\frac{1}{3}\!+\!\dots\!\frac{1}{2000} =8.17836 81036 10282 40957 76565 71641 69368 79354 66740 91251 77402 20409 26320 14205 58039 78429 87946 27554 87631 13645+ E=:57721 56649 01532 86060 65120 90082 40243 10421 59335 93995 35988 05772 51046 48794 94723 80546 (last term is \frac{B_{12}}{24 \cdot 2000^{24}}).
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Here the 60th decimal place in the value of E is the same when n is 2000 as it is when n is 1000.

It is somewhat remarkable that these differences are the same to five places of decimals; and it may be observed that the value of E will probably be changed and extended very slowly indeed by employing higher values of n. The remark in the previous Supplementary Paper\*, as to n being 50000 or even 100000 in order to obtain probably about 100 places of decimals in E, seems, the author now thinks, to be not well founded; and he hesitates even to conjecture what number of terms of the Harmonic Progression should be "summed" to ensure accuracy in the value of E to 100 decimals.

<sup>\*</sup> Proceedings, vol. xv. p. 429.